## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A process for restricting access to an object-oriented method within a data processing system, the process comprising:

initiating a call to the object-oriented method from a requester;

determining whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct;

in response to a determination that access to the object-oriented method has been restricted with an object-oriented enforcement construct, performing an authorization process to determine whether the requester is authorized to invoke the object-oriented method; and

in response to a determination that the requester is authorized to invoke the object-oriented method, invoking the object-oriented method;

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.

- 2. (Original) The process of claim 1 further comprising: in response to a determination that the requester is not authorized to invoke the object-oriented method, returning an error response to the requester for the call to the object-oriented method.
- 3. (Original) The process of claim 1 further comprising: identifying the authorization process that is associated with the object-oriented method.
- 4. (Original) The process of claim 1 further comprising: obtaining identity information associated with the requester; and passing the identity information associated with the requester to the authorization process.

- 5. (Original) The process of claim 1 wherein the authorization process is performed by invoking an authorization method.
  - 6. (Original) The process of claim 1 further comprising: analyzing runtime environment information in order to determine whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct.
- 7. (Original) The process of claim 1 wherein the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a method level in a source code statement for the object-oriented method.
- 8. (Original) The process of claim 1 wherein the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a class level in a source code statement for a class that includes the object-oriented method.
- 9. (Currently Amended) A process of generating source code for restricting access to an object-oriented method within a data processing system, the process comprising: editing a source code statement that defines the object-oriented method within a source code file; and
  - modifying the source code file to include an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by a compiler as requiring runtime execution of the authorization process, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method;
  - wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.
- 10. (Original) The process of claim 9 wherein the enforcement construct is included in the source code statement that defines the object-oriented method.

- 11. (Original) The process of claim 9 wherein the enforcement construct is included in a source code statement that defines a class that includes the object-oriented method.
- 12. (Currently Amended) A process of generating executable code for restricting access to an object-oriented method within a data processing system, the process comprising: compiling source code that defines the object-oriented method within a source code file; and
  - compiling source code that defines an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by a compiler as requiring runtime execution of the authorization process, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method;
  - wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.
- 13. (Original) The process of claim 12 wherein the enforcement construct is included in a source code statement that defines the object-oriented method.
- 14. (Original) The process of claim 12 wherein the enforcement construct is included in a source code statement that defines a class that includes the object-oriented method.
- 15. (Currently Amended) A process of restricting invocation of an object-oriented method within a data processing system, the process comprising:

identifying the object-oriented method within a data structure; and associating an object-oriented enforcement construct with the object-oriented method, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process that is to be executed, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method;

- wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.
- 16. (Currently Amended) A computer program product in a computer-readable medium for use within a data processing system for restricting access to an object-oriented method, the computer program product comprising:

instructions for initiating a call to the object-oriented method from a requester; instructions for determining whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct; instructions for performing, in response to a determination that access to the object-oriented method has been restricted with an object-oriented enforcement construct, an authorization process to determine whether the requester is authorized to invoke the object-oriented method; and

- instructions for invoking, in response to a determination that the requester is authorized to invoke the object-oriented method, the object-oriented method;
- wherein an instruction to enforce said object-oriented enforcement construct is embedded

  in compiled source code and said source code is stored in a computer-readable

  medium.
- 17. (Original) The computer program product of claim 16 further comprising: instructions for returning, in response to a determination that the requester is not authorized to invoke the object-oriented method, an error response to the requester for the call to the object-oriented method.
- 18. (Original) The computer program product of claim 16 further comprising: instructions for identifying the authorization process that is associated with the object-oriented method.
- 19. (Original) The computer program product of claim 16 further comprising: instructions for obtaining identity information associated with the requester; and

instructions for passing the identity information associated with the requester to the authorization process.

- 20. (Original) The computer program product of claim 16 wherein the authorization process is performed by invoking an authorization method.
  - 21. (Original) The computer program product of claim 16 further comprising: instructions for analyzing runtime environment information in order to determine whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct.
- 22. (Original) The computer program product of claim 16 wherein the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a method level in a source code statement for the object-oriented method.
- 23. (Original) The computer program product of claim 16 wherein the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a class level in a source code statement for a class that includes the object-oriented method.
- 24. (Currently Amended) A computer program product in a computer-readable medium for use within a data processing system to generate source code for restricting access to an object-oriented method, the computer program product comprising:

instructions for editing a source code statement that defines the object-oriented method within a source code file; and

instructions for modifying the source code file to include an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by a compiler as requiring runtime execution of the authorization process, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method;

- wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.
- 25. (Original) The computer program product of claim 24 wherein the enforcement construct is included in the source code statement that defines the object-oriented method.
- 26. (Original) The computer program product of claim 24 wherein the enforcement construct is included in a source code statement that defines a class that includes the object-oriented method.
- 27. (Currently Amended) A computer program product in a computer-readable medium for use within a data processing system to generate executable code for restricting access to an object-oriented method, the computer program product comprising:
  - instructions for compiling source code that defines the object-oriented method within a source code file; and
  - instructions for compiling source code that defines an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by a compiler as requiring runtime execution of the authorization process, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method;
  - wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.
- 28. (Original) The computer program product of claim 27 wherein the enforcement construct is included in a source code statement that defines the object-oriented method.

- 29. (Original) The computer program product of claim 27 wherein the enforcement construct is included in a source code statement that defines a class that includes the object-oriented method.
- 30. (Currently Amended) A computer program product in a computer-readable medium for use within a data processing system for restricting invocation of an object-oriented method, the computer program product comprising:

instructions for identifying the object-oriented method within a data structure; and instructions for associating an object-oriented enforcement construct with the object-oriented method, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process that is to be executed, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method;

- wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.
- 31. (Currently Amended) An apparatus for restricting access to an object-oriented method within a data processing system, the apparatus comprising:

means for initiating a call to the object-oriented method from a requester;

- means for determining whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct; means for performing, in response to a determination that access to the object-oriented method has been restricted with an object-oriented enforcement construct, an authorization process to determine whether the requester is authorized to invoke the object-oriented method; and
- means for invoking, in response to a determination that the requester is authorized to invoke the object-oriented method, the object-oriented method;
- wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium.

- 32. (Original) The apparatus of claim 31 further comprising:

  means for returning, in response to a determination that the requester is not authorized to invoke the object-oriented method, an error response to the requester for the call to the object-oriented method.
- 33. (Original) The apparatus of claim 31 further comprising: means for identifying the authorization process that is associated with the object-oriented method.
- 34. (Original) The apparatus of claim 31 further comprising: means for obtaining identity information associated with the requester; and means for passing the identity information associated with the requester to the authorization process.
- 35. (Original) The apparatus of claim 31 wherein the authorization process is performed by invoking an authorization method.
  - 36. (Original) The apparatus of claim 31 further comprising:means for analyzing runtime environment information in order to determine whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct.
- 37. (Original) The apparatus of claim 31 wherein the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a method level in a source code statement for the object-oriented method.
- 38. (Original) The apparatus of claim 31 wherein the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a class level in a source code statement for a class that includes the object-oriented method.